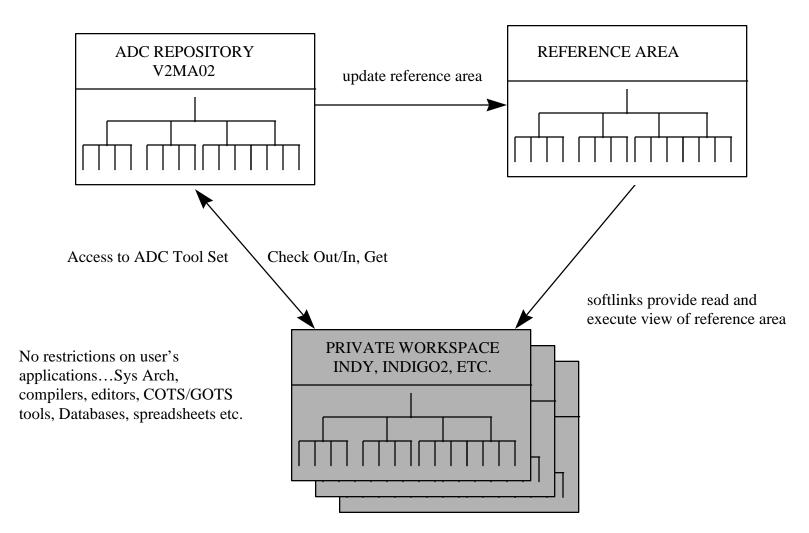
ADC/PRO OVERVIEW

- ADC/PRO is the acronym for Aide-de-Camp Pro, a software configuration management (SCM) tool from TRUE SOFTWARE...we call it just ADC
- Provides users with change tracking and control of the product development process ...automated for many users
- Provides users with a Product Development Environment (PDE)...automated for many users. See Figure 1
- Not just software, but engineering products, documents, hardware lists, test suite
- The product baseline is automatically maintained for many users. For software development, the "best" code is always available to users.
- Ease of use virtually no admin for users. Easy to use GUI and a few scripts
- Provides "locking" capability and conflict detection resolution features. Either preventing concurrent updates or detecting conflicts and providing easy to use resolution tools.
- Allows promotion groups to be defined (i.e. development, integration test, system test, shadow mode, operations)

THE CCS PRODUCT Paul Cape DEVELOPMENT ENVIRONMENT



- * Check Out Place a writable file(s) in private space; overrides softlinks to the same file in reference area
- * Check In Puts a new or modified file(s) from private space into the archive with associated cset
- * Get Place a readable/executable file(s) in private space; overrides softlinks to the same file in reference area

VISION 2000 IMPLEMENTATION of ADC/PRO

- The CCS Product Development Environment (PDE)
- Supports a users' "work environment" by linking a users' private product development area (workspace), with the archive and all of its' tools/functionality, and read/execute view of all files relevant to his product development (reference area).
- The ADCPRO Product Development CM tool is installed on the dedicated server v2ma02 on the COLO facility
- The repositories reside on the server
- ADC clients will run on SGI, PC, SUN, (ALPHA)
- Reference areas are located on the development (and test) Challenge
- Work areas are located on the development (and test) SGI workstations, SUN workstations, PC/95, and later on DEC ALPHAs, (No MACS)
- The login and resource control files and path statements for all users will be modified.
- 60 unique users OS account names, no passwords
- Future implementations may have repositories reference areas, and workspaces located at BLDG.23 for DEV FEP, SHADOW MODE, and CO-LO INT string
- Promotion and deployment procedures are being worked
- Some ADC implementation/configuration details at VISION for the near future will require manual intervention

ADC/PDE USER GUIDELINES

REPOSITORY

- The repository is like a database that stores files and changes made to them.
- For the CCS software products, derived from the level 2 or 3 Data Flow Diagram process definitions with additions to support class libraries and COTS and GOTS.
- Other repositories to support CCS hardware, engineering and project documentation products have/will be created
- The repositories are the archive of CCS product development. They contain the different versions of a the CFTs' system/subsystem directory structure and files

REFERENCE AREA

 Reference areas will contain a designated read and execute copy/version of a CFTs' repository... available/viewable (softlinked) to all team members' private work space.
 Probably on a CFT basis. This area will be updated at a time interval determined by the project lead/release lead with a new version determined by the project lead/release lead. See Figure 2

THE CCS STRAWMAN REPOSITORY STRUCTURE

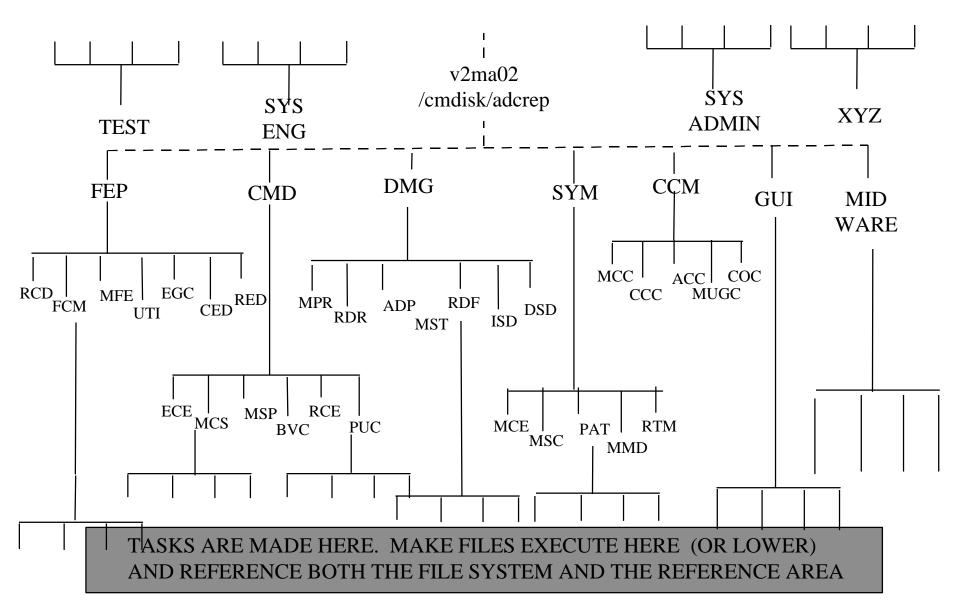


FIGURE 2

PRIVATE WORK SPACE

- Each user designates their private work space(s) on the Challenge or on local/users' workstations/PCs. A private work space is a file system structure that has softlinks to the reference area..... a user always has an effortless working view of the approved version to work against.
- Users "Check Out" (get with a lock) files from the repository into their work area, producing a local, writable copy of the file. ADC creates a change set....more on this later
- Any tool/application i.e., edit, compile, test tools can be used.
- Makefile file references, executed from the private work space, are resolved first through the local copy then through softlinks to the reference area
- Users "Check IN" the modified file(s) into the ADC server.
- The change set is "frozen". ADC maintains the users' personal view of the repository through out this process.

WORK ENVIRONMENT

• ADC maintains environment variables that link he repository, reference area, and private work space together as a work environment

ADC/PRO MANAGES OBJECTS

- Users manage software changes based on logical purpose and function...not file deltas.
- The rationale for each code change is captured in a change set (cset) as physical edits (one or more files), user descriptions (e.g. bug fix, new feature, CR#), and/or user designated attributes and relationships
- Csets have attributes and relationships. File names are available, but most changes will be managed as csets
- ADC scanners capture code dependencies for C, C++, FORTRAN, ADA, JAVA, HTML, and GIF
- ADC provides user information tools that recognize code based on these characteristics ... Finding and migrating existing code is/can be easy

USERS INFORMATION

- A powerful search tool provides information about a repository based on any valid object, attribute, or relationship. Hot links are supported.
- A graphical representation of the repository version tree provides a clear picture of the relationship of the versions and branches. Hot links are supported
- A Merge window provides point and click selection of versions for merging
- Csets can be migrated to any version at will
- Conflicts are automatically detected and a conflicts are displayed in synchronized adjacent windows for resolution.

USER INTERFACE to ADC/PRO

GETTING STARTED

- You will need an ADC account . See the ADC Admin (Yuri)
- Mostly an easy to use GUI. Some start, stop, and reset server scripts
- Run the tutorial. A tutorial booklet and code are available. The tutorial covers most user features and some admin features.
- Detailed instructions on managing the PDE are provided in the ADC/Pro Reference Manual Command Line Interface, the ADC/Pro Tutorial, and the ADC/PRO for Windows User's Guide. These documents are available for reference in the VISION 2000 Co-Location Facility Rm.# 80. Detailed procedures for CCS CM activities are under development.
- POINTS OF CONTACT for all ADC user account and usage:

Prime: Yuri Frankel room 80, ext. 7475 Backup: Paul Capotosto room 80, ext. 7448

THE CCS MULTI REFERENCE AREAS

CM_PROCEDURES/MULTI_REF_AREAS.ppt Paul Capotosto

